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**PATENT**

Atty. Docket No. MIT-103  
(5473/111)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANTS:** Kawasaki et al.

**SERIAL NUMBER:** 09/422,999

**GROUP NUMBER:** 1643

**FILING DATE:** 10/22/99

**EXAMINER:** Not yet assigned

**TITLE:** GENES INTEGRATING SIGNAL TRANSDUCTION  
PATHWAYS

Assistant Commissioner for Patents  
Washington, D.C. 20231

**AMENDMENT AND RESPONSE**

Sir:

This paper is responsive to the Office Action mailed on February 21, 2001, in the above-identified patent application. For the reasons discussed below, Applicants respectfully request reconsideration and withdrawal of the objection and rejections made in the Office Action.

**Amendments**

Please amend the application as follows:

**In the Claims:**

Please cancel claims 1, 3, 8, 10 and 119 without prejudice. Please amend claims 2, 4-7, 9, 11, 38-40, 45, 48, 50, 62, 118, and 120 as follows: